

Year	Second semester 2026
Course	Organic Chemistry
Day/Period	Wed.4Period
Credit(s)	2Credits
Instructor	EUNSANG KWON
Eligible Participants	Undergraduate 3rd grade
Course code/number	
Main Subjects	
Course of Media Class	
Practical business	○
Language Used in Course	English
Course Title	Organic Chemistry
Purpose/Abstract	This course covers the fundamentals of chemical structure and bonding, organic compounds, stereochemistry, organic reactions, and the molecular orbital theory of organic molecules.
Goal	This course aims to provide a foundational understanding of chemical reactions and their application to representative organic reactions. Additionally, through practical exercises using molecular modeling software, students will acquire the skills to analyze the three-dimensional structures and various physical properties of organic molecules.
Contents and progress schedule of the class	This course consists of 10 sessions, including a final exam. 1. Course Introduction, Introduction to Computational Chemistry & Molecular Orbital Calculation Software Practice 2. Structure and Bonding, Polar Covalent Bonds: Acids and Bases 3. Alkanes and Cycloalkanes: Structure and Stereochemistry 4. Alkenes: Structure, Stereochemistry, and Reactivity 5. Alkynes and Reaction Mechanisms of Alkenes and Alkynes 6. Organohalides and Reactions of Alkyl Halides 7. Structure Determination: NMR and IR Spectroscopy 8. Conjugated Compounds and Ultraviolet-Visible Spectroscopy, Benzene and Aromaticity 9. Chemistry of Benzene: Electrophilic Aromatic Substitution 10. Final Exam
Grading	The final grade for this course will be evaluated based on quizzes (20%) and a final written exam (80%).
Books required/referenced	Organic Chemistry, 8th ed., by John McMurry, Publisher: CENGAGE Learning, 2011 ISBN-10: 0840054440, ISBN-13: 9780840054449 *Note: Earlier or later editions are also acceptable.
Contents of preparation and review	No specific out-of-class study is required.
Study time for preparation and review	0
How to contact and Google Classroom Code	If you have any questions or inquiries, please feel free to email the course instructor. Please ensure that the course name and your student ID are included in the subject line.
Remarks	
Last Update	

One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.